

Appendix A: DTD And Examples

I. Request DTD

```
<!ELEMENT CustomerID (#PCDATA)>
<!ELEMENT Password (#PCDATA)>
<!ELEMENT Customer (CustomerID, Password)>

<!ELEMENT TID (#PCDATA)>
<!ELEMENT CTID (#PCDATA)>
<!ELEMENT BillingTypeCC EMPTY>
<!ELEMENT BillingTypeME EMPTY>
<!ELEMENT CCExpMonth (#PCDATA)>
<!ELEMENT CCExpYear (#PCDATA)>
<!ELEMENT CCNumber (#PCDATA)>
<!ELEMENT CCType (#PCDATA)>
<!ELEMENT Email (#PCDATA)>
<!ELEMENT FirstName (#PCDATA)>
<!ELEMENT LastName (#PCDATA)>
<!ELEMENT Phone (#PCDATA)>
<!ELEMENT Street (#PCDATA)>
<!ELEMENT City (#PCDATA)>
<!ELEMENT State (#PCDATA)>
<!ELEMENT Zip (#PCDATA)>
<!ELEMENT Country (#PCDATA)>
<!ELEMENT CleansingLevelLow EMPTY>
<!ELEMENT CleansingLevelMedium EMPTY>
<!ELEMENT CleansingLevelHigh EMPTY>
<!ELEMENT CreditCard ((CleansingLevelLow, CCNumber, CCType, CCExpMonth,
CCExpYear, FirstName, LastName, Phone?, Email?, Street?, City?, State?, Zip?, Country?) |
(CleansingLevelHigh, CCNumber, CCType, CCExpMonth, CCExpYear, FirstName,
LastName, Phone, Email, Street, City, State, Zip, Country))>

<!ELEMENT FormatBMP EMPTY>
<!ELEMENT FormatRLE EMPTY>
<!ELEMENT Height (#PCDATA)>
<!ELEMENT Width (#PCDATA)>
<!ELEMENT Bitmap ((FormatBMP | FormatRLE), Height, Width)>
<!ELEMENT PlainTextData EMPTY>
<!ELEMENT IBIPData EMPTY>
<!ELEMENT Amount (#PCDATA)>
<!ELEMENT PostageType (#PCDATA)>
<!ELEMENT Indicia (PostageType, Amount, ((IBIPData | Bitmap | PlainTextData) |
(IBIPData, Bitmap) | (IBIPData, PlainTextData) | (Bitmap, PlainTextData) | (IBIPData,
Bitmap, PlainTextData)))>
<!ATTLIST Indicia id CDATA #REQUIRED>
```

```

<!ELEMENT StandardTransaction (CTID, ((BillingTypeCC, CreditCard) | BillingTypeME),
Indicia+)>
<!ELEMENT LookupTransaction ((CTID | TID), Indicia+)>
<!ELEMENT RegetTransaction ((CTID | TID), IBIPData?, Bitmap?, PlainTextData?)>

<!ELEMENT Request (Customer, (StandardTransaction | LookupTransaction |
RegetTransaction))>
<!ATTLIST Request version CDATA #FIXED "1.0">

<!-- End of DTD -->

```

II. Response DTD

```

<!ELEMENT Code (#PCDATA)>
<!ELEMENT Description (#PCDATA)>
<!ELEMENT SubCode (#PCDATA)>
<!ELEMENT ReturnCode ((Code | (Code, Description, SubCode)))>

<!ELEMENT VersionNo (#PCDATA)>
<!ELEMENT AlgorithmID (#PCDATA)>
<!ELEMENT CertificateSerialNo (#PCDATA)>
<!ELEMENT ManufacturerID (#PCDATA)>
<!ELEMENT ModelID (#PCDATA)>
<!ELEMENT SerialNo (#PCDATA)>
<!ELEMENT AscendingRegister (#PCDATA)>
<!ELEMENT Postage (#PCDATA)>
<!ELEMENT Date (#PCDATA)>
<!ELEMENT DescendingRegister (#PCDATA)>
<!ELEMENT RateCategory (#PCDATA)>
<!ELEMENT DigitalSignature (#PCDATA)>
<!ELEMENT PlainTextData (VersionNo, AlgorithmID, CertificateSerialNo,
ManufacturerID, ModelID, SerialNo, AscendingRegister, Postage, Date,
DescendingRegister, RateCategory, DigitalSignature)>

<!ELEMENT IBIPData (#PCDATA)>
<!ELEMENT BitmapData (#PCDATA)>
<!ELEMENT TID (#PCDATA)>
<!ELEMENT Indicia (TID, ((IBIPData | BitmapData | PlainTextData) | (IBIPData,
BitmapData) | (IBIPData, PlainTextData) | (BitmapData, PlainTextData) | (IBIPData,
BitmapData, PlainTextData)))>
<!ATTLIST Indicia id CDATA #REQUIRED >

<!ELEMENT Response (ReturnCode, (Indicia+ | Indicia? ))>
<!ATTLIST Response      version CDATA #FIXED "1.0">

<!-- End of DTD -->

```

III. Request (Standard Transaction)

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE Request SYSTEM "Request.dtd">
<Request>

    <Customer>
        <CustomerID>USPS</CustomerID>
        <Password>USPSPassword</Password>
    </Customer>

    <StandardTransaction>
        <CTID>34903428234890234809</CTID>
        <BillingTypeCC/>
        <CreditCard>
            <CleansingLevelLow/>
            <CCNumber>4111111111111111</CCNumber>
            <CCType>Visa</CCType>
            <CCExpMonth>10</CCExpMonth>
            <CCExpYear>2001</CCExpYear>
            <FirstName>478E</FirstName>
            <LastName>478E</LastName>
            <Email>none@none.com</Email>
        </CreditCard>

        <Indicia id="1">
            <PostageType>GXG</PostageType>
            <Amount>0.33</Amount>
            <IBIPData/>
            <Bitmap>
                <FormatBMP/>
                <Height>400</Height>
                <Width>400</Width>
            </Bitmap>
        </Indicia>

        <Indicia id="2">
            <PostageType>GXG</PostageType>
            <Amount>1.0</Amount>
            <IBIPData/>
            <PlainTextData/>
        </Indicia>

    </StandardTransaction>
</Request>
```

IV. Request (LookupTransaction)

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE Request SYSTEM "Request.dtd">
<Request>

  <Customer>
    <CustomerID>USPS</CustomerID>
    <Password>Password</Password>
  </Customer>

  <LookupTransaction>
    <TID>3244393423429084329234324</TID>

    <Indicia id="1">
      <PostageType>GXG</PostageType>
      <Amount>99.99</Amount>
      <IBIPData/>
      <Bitmap>
        <FormatRLE></FormatRLE>
        <Height>600</Height>
        <Width>300</Width>
      </Bitmap>
      <PlainTextData/>
    </Indicia>

  </LookupTransaction>
</Request>
```

V. Request (RegetTransaction)

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE Request SYSTEM "Request.dtd">
<Request>

  <Customer>
    <CustomerID>USPS</CustomerID>
    <Password>Password</Password>
  </Customer>

  <RegetTransaction>
    <CTID>3244393423429084329234324</CTID>
    <IBIPData/>
    <PlainTextData/>
  </RegetTransaction>
</Request>
```

VI. Response OK

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!-- edited with XML Spy v3.5 NT (http://www.xmlspy.com) by Glk (None) -->
<!DOCTYPE Response SYSTEM "Response.dtd">
<Response>
  <ReturnCode>
    <Code>0</Code>
  </ReturnCode>

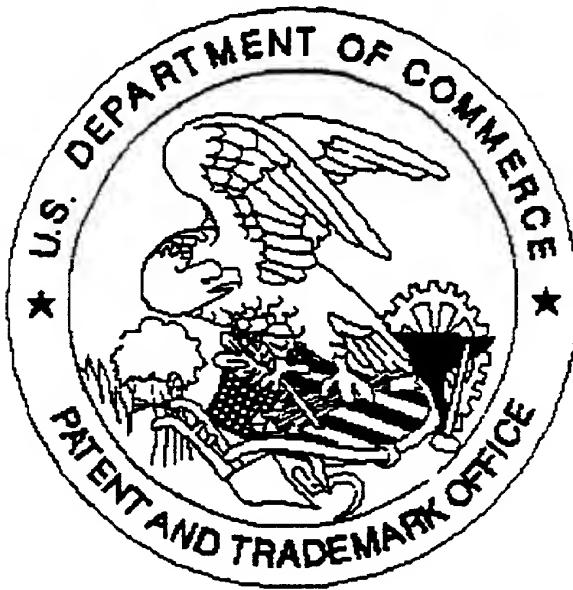
  <Indicia id="1">
    <TID>3443432342342342234243234334879879678</TID>
    <IBIPData>fdfjhjhbererer904578756jk54bbjk56y5h5hkj5k45gjh</IBIPData>
    <BitmapData>
      VOvwP+jz0D/y/wQG2urxIOjzWUAaBgAAGQEADEPAAVGuvw//Lw
      LOvwHOjzoPr0Bw/r8Pbx6vFK5/QEOuvwROvwAQBUMQHo84Dy8UU
      PVw/y8eD7LQHq8Wjq5/QP6/BU6/ACAFSGOvwPN/8jAGMAeb1Aa6
      RAgAAAyoEBewBqrr8Afr8Ajr8Anr8Aqq6/AL6/AM6/AN6/AO6uvwk+
      P4L8ACVQEB+QG6Ad8BAGBiAQDV/g0SARMWAhMWA2JPAAD+h
      bgE6vGJABP/MHoUrkfheoSIP7YDQob1vwECOBMQQJECSBYWFTI
      QIRdrEgNXFq4WEwRiAhUUBYEWBiqBFgeBFgilEYa8BOrxAVU AFL
      IK7BgnHoIaKxefFCQUFa4Sh8AE6v
    </BitmapData>
  </Indicia>

  <Indicia id="2">
    <TID>3443432342342342234243234334879879678</TID>
    <IBIPData>fdfjhjhberewe4578756jk54bbjk56y5h5hkj5k4fgg6787566gjh</IBIPData>
    <PlainTextData>
      <VersionNo>1</VersionNo>
      <AlgorithmID>11</AlgorithmID>
      <CertificateSerialNo>23342</CertificateSerialNo>
      <ManufacturerID>4353445</ManufacturerID>
      <ModelID>655656</ModelID>
      <SerialNo>54655545</SerialNo>
      <AscendingRegister>654</AscendingRegister>
      <Postage>11</Postage>
      <Date>2000-11-12 01:08:42</Date>
      <DescendingRegister>125</DescendingRegister>
      <RateCategory>15</RateCategory>
      <DigitalSignature>r54k54ko597opkoknk17njkjn65kjnk6765ughjhgj</
      DigitalSignature>
    </PlainTextData>
  </Indicia>
</Response>
```

VII. Response (Error)

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE Response SYSTEM "Response.dtd">
<Response>
    <ReturnCode>
        <Code>1106</Code>
        <Description>Bank rejection, unknown reason</Description>
        <SubCode>Decline due to incorrect CVVrequest_id =
979879879878</SubCode>
    </ReturnCode>
</Response>
```

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